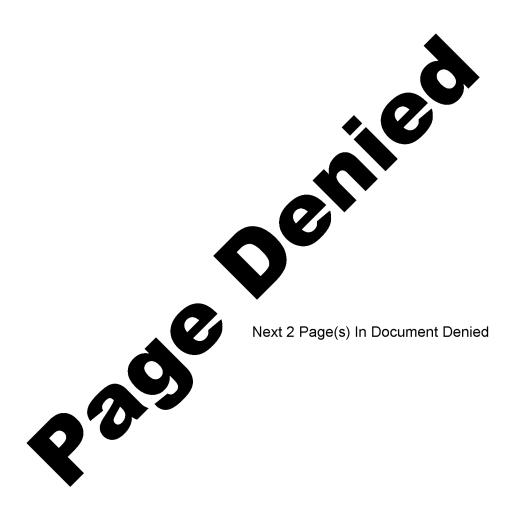
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| Operation Cond | HT (USSR): Problems ucted to the Entire D | of Air Defense in epth of a Theater | a <u>Front</u> | Offensive |
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| | Problems of | Aim Dofoma | a in a Toss. | + OCC | • | |
| <u>Cc</u> | Problems of onducted to the | Entire Dep | th of a The | ter Of Mili | <u>Operation</u> tary Operatio | ons |
| | | | by | | | |
| | General | -Mayor or | Artillery V. and | , Rozndestve | nskiy | |
| | | Colon | el V. Biland | onov | • | |
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| A | front offensive | operation | to the ent: | ire denth of | : a thoatom of | |
| militar | y operations is | a new phen | nomenon in m | nilitarv art | . Naturally | there |
| has ari | sen a need for | a thorough | treatment o | of the many | questions rel | ated to |
| troops | operation, incand installation | ns in a fr | organizatio ont. | on of the al | r detense of | the |
| Th | ne gir defense s | f front to | | · CC | | |
| the ent | ne air defense o Eire depth of a | theater of | military or | perations is | organized on | the |
| basis c | r tnose same pr | inciples the | hat apply in | i ordinary f | ront operatio | ns. |
| wnich a | re characterize oupings of troo | d by the co | oncentration | of efforts | on covering | the |
| maneuve | ring of forces | and means. | and close o | cooperation a | with the air | defense |
| rorces | or arried count | ries in the | e given thea | iters and of | adjacent from | nts, |
| and wit | h the Air Defen | se Forces (| of the Sovie | t Union. | | |
| At | the same time, | the organi | ization and | conduct of | air defense i | n such |
| operati | ve operations h on it is necess | as certain arv to proj | distinctive | features. | In the course | e of an |
| troops | to a depth almo | st twice as | s great as i | n convention | nal operation | ۹. |
| under c | onditions in wh | ich the dis | stance from | the territor | rv of one's or | ωm |
| have be | is great and to en extended. F | le rear are or example | eas of front | s and lines | of transports | ation |
| operati | on in the Europe | ean Theater | r of Militar | y Operations | \overline{s} is 2.000 to | 2.500 |
| KITOWET | ers, the lines | of transpor | rtation will | be extended | 1 to 1.000 to | 1 500 |
| more di | ers or more. Do | ie to these | circumstan | ces, it will | l be considera | ably |
| and ins | tallations as t | vell as to | control the | air defence | s forces and r | maama |
| and to | ensure cooperat: | ion of the | front air d | efense syste | em with the at | ir _{50×1-4} |
| a e rense | of the country | (allied co | ountries) and | d adjacent <u>f</u> | ronts. | OOMITH |
| Wi | thout pretending | to cover | all aspects | of this imm | portant proble | em we |
| | y to examine on | | | | F | Jilly 140 |

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| the most urgent ones ensuring the continuity of air defense, organizing cooperation between the <u>front</u> air defense system and the air defense system of the country (allied countries) and adjacent <u>fronts</u> , and supplying surface-to-air missiles to the air defense troops of a <u>front</u> . |
| Continuity of the air defense of a front. The chief means of action by an air enemy against the troops and installations of a front in a theater of military operations in coming years obviously will be tactical aviation and, in part, carrier-based and strategic aviation. |
| We should assume that a certain part of the air forces will be destroyed in the basing areas by strikes conducted by our missiles and aviation. However, because of dispersed basing and the advance take-off of aircraft, a significant number of them may survive and be able to take part in subsequent combat actions. Thus, the troops of a front will require continuous cover throughout the duration of the entire offensive operation. |
| Calculations show that at least three to five long-range surface-to-air missile brigades (regiments), nine to 14 medium-range surface-to-air missile regiments and up to 15 to 20 short-range surface-to-air regiments (battalions) are required to provide continuous cover for the troops of an advancing front consisting of three to five armies. These forces and means operating jointly with the front's fighter aviation can reliably cover the advancing troops of a front and their rear facilities and units (subunits) to a depth of 500 to 600 kilometers from the line of contact with the enemy. |
| If the offensive develops successfully, there may be exposed installations in the rear of the <u>front</u> and along its lines of transportation that are extremely important both to the <u>front</u> and to the interior of the country. In other words, a significant gap may be formed in the course of the operation between the system of air defense of the troops and the air defense system of the country. It is possible that this gap may extend a distance of 1,000 to 1,200 kilometers toward the end of the operation, while in ordinary operations it would be much less. Neither the Air Defense Forces of the Country nor the air defense troops of the <u>front</u> are capable of protecting the lines of transportation and <u>installations</u> located in this territory without the appropriate reinforcement. For this purpose the Supreme High Command obviously must have, on a given strategic or operational axis, sufficiently strong reserves of air defense troops in the form of mobile air defense large units. Such reserves may be created in peacetime as well as during the course of combat actions. In addition, the continuity of air defense may |
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| be maintained by expanding the boundaries of a front-area air formation and by using forces and means taken from installati no longer important. In the process of setting up air defens territory it may be possible to place some of the air defense front under the command of the air defense forces of the coun the other hand, a certain part of the forces and means of the the air defense of the country under the command of the front | ons that are se in occupied units of the try, and, on a formation of |
| An indispensable condition for the continuity of cover f of a <u>front</u> is the presence of a continuously operating radar system. | or the troops reconnaissance |
| In order to conduct continuous radar reconnaissance in to offensive and throughout the depth of the operational disposifront troops, there must be at least 65 to 70 radar companies least two separate radiotechnical regiments (with nine to 11 each) in the complement of the front air defense troops and uradiotechnical battalions (with four to five companies per batthe air defense troops of each army. This means that a front to its organic means, must be reinforced with a minimum of one radiotechnical regiment, and each army with no less than or radiotechnical battalion. | tion of the , that is, at companies in p to two ttalion) in , in addition |
| The radar field that is established must be solid and can detecting an air enemy throughout the entire range of his possoperational altitudes. A <u>front</u> zone 500 kilometers in width sleast 15 to 16 radar companies placed in the first line of radar the detection of air targets at low altitudes within 70 to 100 of the forward edge. The second and subsequent lines of radar be arranged 50 to 70 kilometers from the first line and in succreate a solid radar detection field above altitudes of 1,000 creates. | sible should have at dar posts for 0 kilometers r posts must |
| The relocation of surface-to-air missile units for the puproviding continuous cover to the troops is carried out in acceptate rates of advance. If the rate of advance is 80 to 100 kill day, long- and medium-range surface-to-air missile units should two to three times per day, and by entire units, not by subunisame time, they will be located in their positions for the major that the time and will be providing cover for the troops. For the of surface-to-air missile units, more frequent moves may lead weakening of the air defense of the troops. | cordance with lometers per ld be moved its. At the ior part of above number |

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In the case where an army has one brigade or two self-propelled surface-to-air regiments, it is possible to provide continuous cover for the main grouping of the army to the entire depth of its operational disposition against enemy strikes from medium and high altitudes, at the same time making no more than two moves per day and spending no more than three hours on the moves. This is corroborated by the following observations. If the radius of the kill zone of a self-propelled system is 35 to 40 kilometers, then two regiments armed with such a system can provide continuous cover, against the strikes of an air enemy from medium altitudes, of the troops and installations of the army operating in an area of about 60 kilometers along a front and up to 100 to 120 kilometers in depth.

In addition to the above units (large units), the air defense troops of a <u>front</u> and armies should have enough low-altitude surface-to-air missile systems to ensure the destruction of targets at maximally low altitudes throughout the zone of operations of the army and of each independently operating large unit. The needs for such systems may be calculated on the basis of the fact that a surface-to-air missile unit armed with low-altitude systems is capable of providing continuous cover to divisional units operating in an area with a front of 25 kilometers and a depth of up to 50 kilometers.

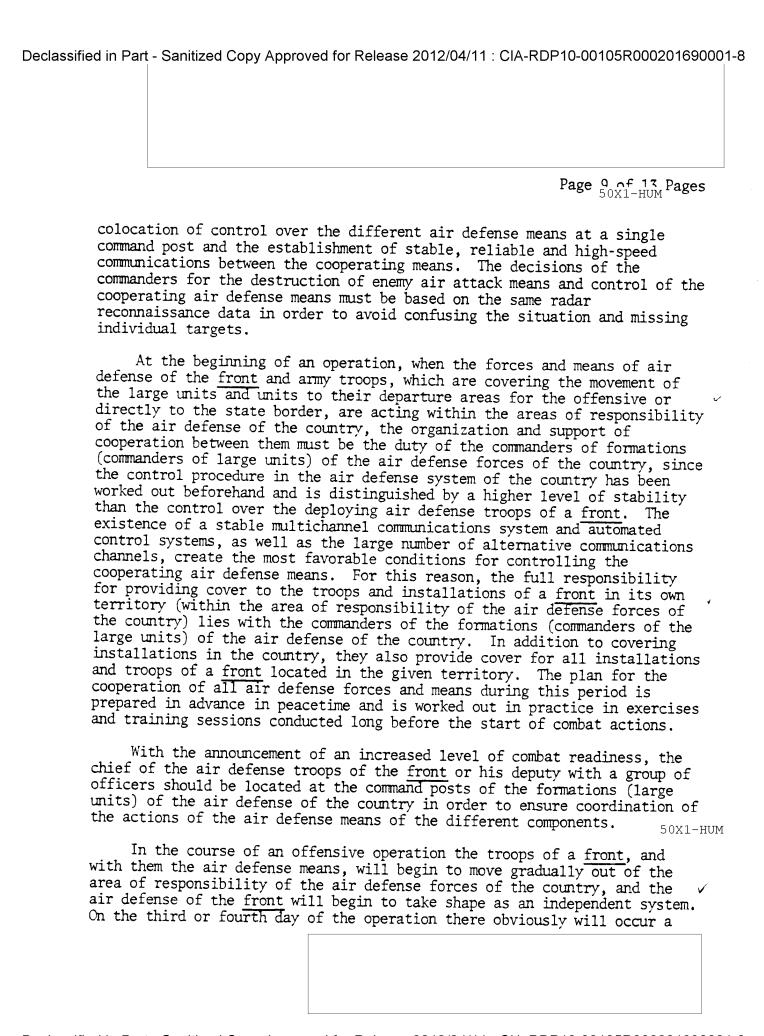
Such <u>front</u> installations as new airfields of <u>front</u> aviation, command post areas, missile technical bases, etc., must be covered in the course of an offensive operation. Furthermore, some <u>front</u> installations (such as <u>front</u> missile technical units, nuclear warhead storage and assembly bases, airfields for nuclear weapons-carrying bombers and the positions of separate missile battalions of <u>front</u> subordination) must have continuous direct cover from surface-to-air missile units in addition to the cover provided by the overall zonal air defense system.

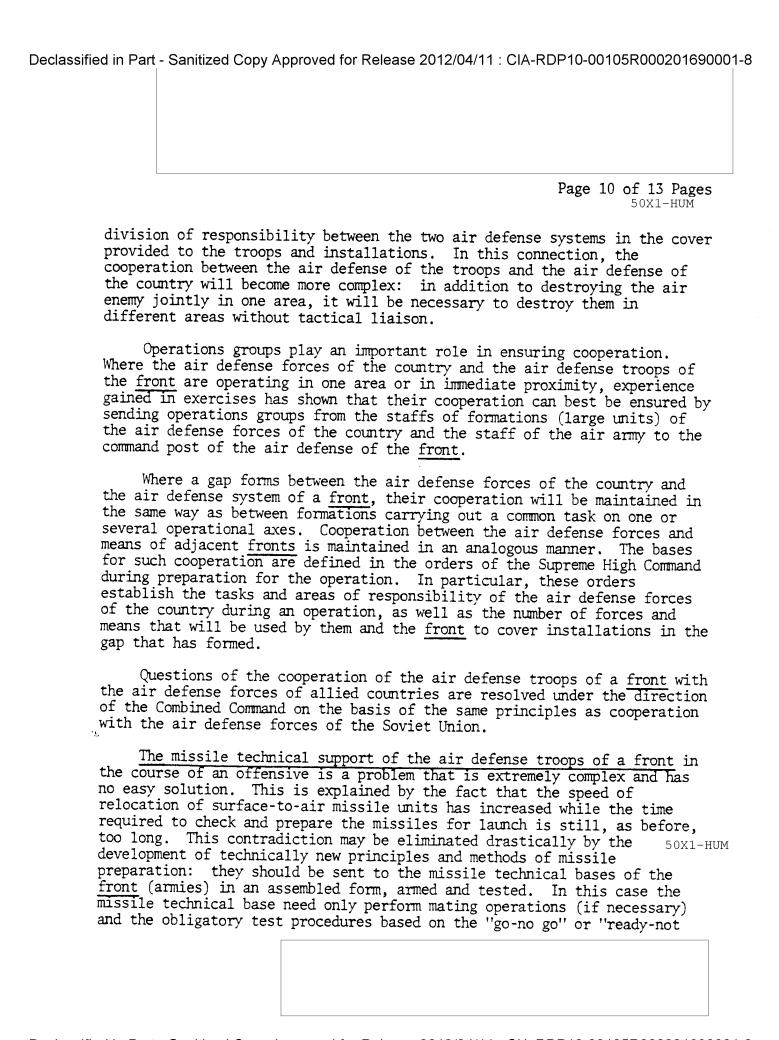
Therefore, the number of air defense forces and means of a <u>front</u> proposed by us for operations throughout the entire depth of a theater of military operations may be considered the minimum. If we consider that the irrecoverable losses of air defense troops during an operation may reach 25 to 30 percent, the requirement will correspondingly increase.

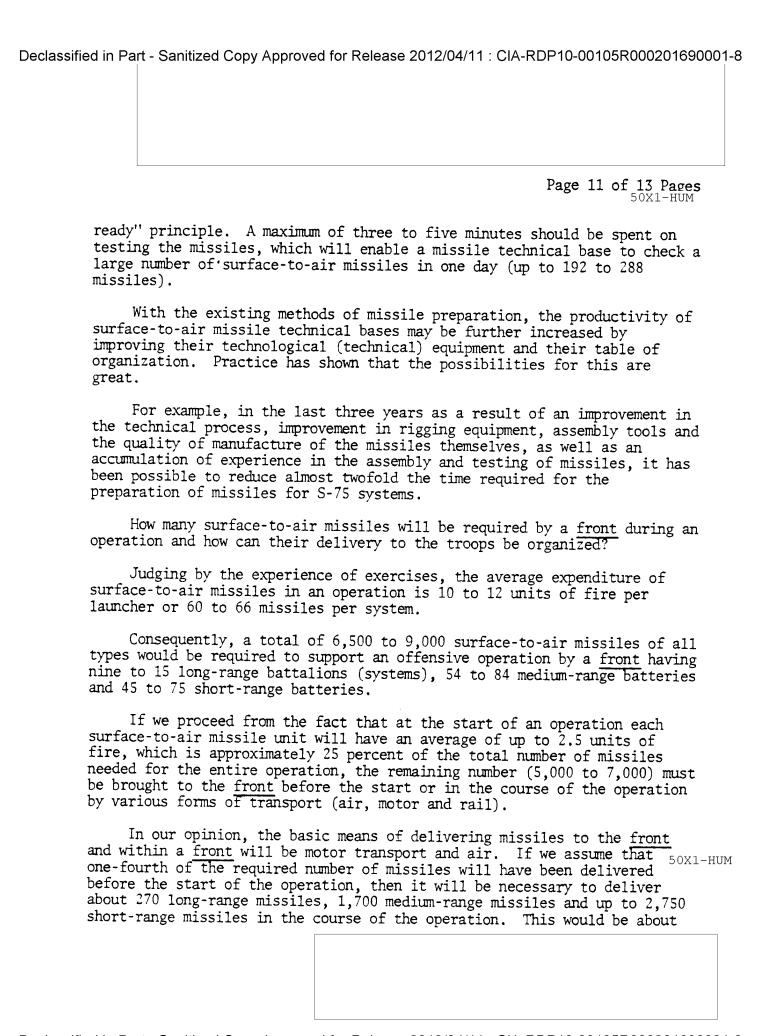
The continuity of cover of <u>front</u> troops provided by fighter aviation is predetermined to a considerable extent by the timeliness with which it is rebased immediately behind the advancing troops. However, it is extremely difficult to build a large number of bases in a short period of time if the rates of advance are high and to great depths. For example,

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| while six to ten airfields would be required for the basing of two fighter aviation divisions in a conventional offensive operation by a <u>front</u> , this number would double for an offensive to the entire depth of a <u>theater</u> . An air army would not be capable of building this number of airfields using its own engineer battalions. This suggests the conclusion that the fighter aviation units of a <u>front</u> should be supplied with longer-range fighters (on the order of 1,500 to 2,000 kilometers) capable of providing cover for the troops of a front to the entire depth of a theater of military operations with the minimum number of rebasings (one or two at most). Another solution would be the development of fighter aircraft not requiring airfields and having the ability to operate from small dirt strips and to relocate rapidly behind the advancing troops. | |
| The mobility and mileage reserve, with respect to fuel consumption and track (wheel) life, of modern air defense systems differ little from those of the modern tanks and armored personnel carriers (motor vehicles) of motorized rifle and tank large units. Modern surface-to-air missile and antiaircraft artillery units and subunits are mobile, self-propelled air defense systems with a considerable mileage reserve and speeds equal to those of modern tanks and armored vehicles, and the time required to bring them from travelling status to a state of combat readiness enables them to be deployed to repulse enemy air strikes within limited time periods not exceeding five to 15 minutes. Therefore, the mobility and mileage reserve of air defense systems are not an obstacle and do not limit the capabilities of air defense systems to provide cover for front troops conducting an offensive to the entire depth of a theater of military operations. | |
| Cooperation of the forces and means of a front air defense system with the Air Defense Forces of the Country (allied countries) and adjacent fronts. This organization requires first of all that an initial period of the operation be specified in which the air defense forces of the front are deployed in the same area as the Air Defense Forces of the Country. During this period the forces and means of the air defense of the country play the main role in covering the deploying front forces. The air defense troops of the front and the air defense forces of the country maintain tactical cooperation which involves the coordination with respect to time and place of the combat efforts of air defense units (subunits) and the fighter aviation subordinate to various chiefs. Such cooperation is organized and worked out in advance, before the start of combat actions. 50x1-HUM | |
| A decisive condition for the successful cooperation of all air defense forces and means in a <u>front</u> zone at the beginning of an operation is the | |
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| 500 missiles per day (27 long-range, 170 medium-range and up to 300 short-range). To carry and deliver these missiles simultaneously would require approximately 190 aircraft or two to 2.5 trips of one military air transport division. |
| Shipment of the missiles by motor transport would require a much greater number of units of transport (about twice as many) and would also require more than one day for delivery. |
| The delivery of missiles by motor transport to the launch positions of the surface-to-air missile units within a <u>front</u> will be impeded by the great distances, and by partial destruction and contamination of the roads. Therefore, in this case it would be most advisable to use MI-4-type helicopters to supply short-range missiles and larger-capacity helicopters for medium-range missiles. |
| Calculations show that, in some cases, particularly when an operation develops at a high speed, a front will require at least one helicopter regiment for the supply of missiles alone. |
| Such an organization of the missile supply process will permit the uninterrupted delivery of missiles to the launch positions of surface-to-air missile units and the reliable cover of the advancing troops of a <u>front</u> to the entire depth of a <u>front</u> offensive operation. |
| Under the existing technology of missile preparation and testing, surface-to-air missiles arrive at the <u>front</u> in factory crates. Their unpacking, assembly, mating and testing take a great deal of time. Front and army missile technical bases have the responsibility for preparing and testing such missiles. The number and composition of these bases must be such as to ensure the preparation and delivery to surface-to-air missile units (subunits) of missiles that will arrive at the <u>front</u> within one day's time. If the productivity of a surface-to-air missile technical base is approximately 64 short-range and 24 medium-range missiles per day, then there should be two to three <u>front</u> missile technical bases and one base for each army in order to assemble and test missiles which will be supplied to the surface-to-air missile units (large units) in the course of an operation. |
| In addition, each surface-to-air missile unit should have technical subunits to perform prelaunch testing. Under these conditions, all surface-to-air missiles reaching the <u>front</u> from the arsenals and bases of the ChiefMissile and Artillery Directorate, as well as from the country's |
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| missile plants, wil surface-to-air miss | l be assembled an | nd tested in advanc required number. | e and delivered to |
| offensive operation | . Conducted to the say that the stud ble that a wide r | y of this problem ange of military s | theater of military |
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